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RANSMITTAL **FORM**

Application Number 10/849,404 Filing Date May 18, 2004 First Named Inventor Pan, Shaoher X. Art Unit 2873 Examiner Name Richard E. Hanig Attorney Docket Number 021713-002321US

(to be used for all correspondence after initial filing)

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Richard E. Hanig

2873

COMMUNICATION - COMMENTS ON STATEMENT OF REASONS FOR

Commissioner for Patents P.O. Box 1450

P.O. Box 1450 Alexandria, VA 22313-1450

on 2115/06

OVINSEND and TOWNSEND and CREW LLP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner:

Art Unit:

ALLOWANCE

In re application of:

SHAOHER X. PAN et al.

Application No.: 10/849,404

Filed: May 18, 2004

For: FABRICATION OF A HIGH

FILL RATIO REFLECTIVE

SPATIAL LIGHT MODULATOR

WITH HIDDEN HINGE

Mail Stop Issue Fee Commissioner for Patents P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

Applicants note that claim 1 recites:

1. A method of fabricating a spatial light modulator, comprising:

forming a first substrate defining a cavity;

fabricating an electrode on a second substrate;

bonding the first substrate to the second substrate;

forming a hinge and mirror plate on the first substrate; and

applying a reflective surface on a mirror plate and above a portion of the hinge,

the reflective surface having an area greater than an area of the upper surface of the mirror plate.

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thickness;

Applicants note that claim 27 recites:

27. A method of fabricating a plurality of mirrors for a spatial light modulator, comprising:

forming a cavity in a first side of a first substrate;

thinning a top layer on a second side of the first substrate to a predetermined thickness;

etching a hinge on the second side of the first substrate substantially beneath an upper surface of the thinned first substrate;

depositing a sacrificial layer on the second side of the first substrate;

planarizing the second side of the first substrate;

depositing a reflective surface on the second side of the first substrate;

releasing a mirror by etching;

removing the sacrificial layer on and around the hinge so the mirror can rotate about an axis defined by the hinge.

Applicants note that claim 39 recites:

39. A method of fabricating a spatial light modulator including an array of a plurality of mirrors, comprising:

generating a mask defining areas to be etched from a first side of a first substrate; etching the areas on the first side of the first substrate defined by the mask to form a plurality of cavities in the first side of the first substrate;

fabricating electrodes on a first side of a second substrate;

bonding the first side of the first substrate to the first side of the second substrate; thinning a top layer on the second side of the first substrate to a predetermined

etching a hinge in the first substrate;

depositing a sacrificial layer on the first substrate;

planarizing the first substrate to remove the sacrificial layer from an upper surface on the second side of the first substrate, leaving sacrificial material on and around the hinge; SHAOHER X. PAN et al. Application No.: 10/849,404

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depositing a reflective surface on the upper surface and above a portion of the hinge;

releasing a mirror by etching;

removing the remaining sacrificial layer from the first substrate so the mirror can rotate about an axis defined by the hinge.

None of the prior art references teach or suggest a method as recited in any of these claims.

Respectfully submitted,

Craig C. Largent Reg. No. 56,400

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